



**UNITED STATES ENVIRONMENTAL PROTECTION  
AGENCY  
REGION 6  
HAZARDOUS WASTE ENFORCEMENT BRANCH  
1445 Ross Avenue  
Dallas, Texas 75202**

March 11, 2010

**MEMORANDUM**

**SUBJECT:** Gulfco Marine Maintenance Superfund Site  
Condition of Storage Tanks and Former Impoundment Cap

**FROM:** M. Gary Miller, P.E.  
Arkansas/Texas Section (6SF-RA)

**TO:** Carlos Sanchez, Chief  
Arkansas/Texas Section (6SF-RA)

On March 9, 2010, I performed an inspection of the above ground storage tanks and the cap over the former impoundments located at the Gulfco Marine Maintenance Superfund Site at 906 Marlin Avenue in Freeport, Brazoria County, Texas. Pictures of the tanks and cap are attached.

An above ground storage tank farm is located at the site south of Marlin Avenue. It consists of fifteen tanks of various sizes located within a concrete bermed area. These tanks contain various hazardous substances including benzene, 1,2-dichloroethane, chloroform, heptachlor, tetrachloroethene, trichloroethene, and vinyl chloride. Corrosion was observed on the tanks in varying amounts, and the containment bermed area was approximately one-half full with water. Any liquids released from the tanks would initially be contained in the bermed area. However, additional rainfall may result in the liquids overtopping the containment wall and a release to the surrounding soils and surface water.

Wash waters from the cleaning of barges that contained organic chemicals, caustics, and waste oils were stored in the former surface impoundments. These impoundments were earthen pits with natural clay liners located at the site north of Marlin Avenue. They were closed in 1982 by removing the liquids and sludges except for about 100 cubic yards of sludge, which was mixed with soil and left in place. The impoundments were capped with three-feet of clay and a hard-wearing (shell) surface. The shallow ground water below the former impoundments occurs at depths ranging from 5-feet to 15-feet. This shallow ground water contains a number of volatile organic compounds, including 1,1,1-trichloroethane, 1,1-dichloroethene, 1,2,3-trichloropropane, 1,2-dichloroethane, benzene, 1,2-dichloroethene, methylene chloride, tetrachloroethene, trichloroethene, and vinyl chloride. The purpose of the clay cap is to restrict

infiltration of rain water into the former impoundments and thereby restrict the migration of the hazardous substances remaining under the cap and in the shallow groundwater. The cap was observed to have ruts on the top, and was covered in some areas by woody shrubs reaching a height of approximately three to four feet. The ruts and the roots from the woody shrubs may result in increased infiltration and future migration of the hazardous substances beneath the cap into the surrounding soils and surface waters.

If you have any questions regarding this, please contact me at 5-8318.

#### Attachments

cc: Barbara Nann  
Rita Engblom